

**Groundwater source formation codes  
prepared by  
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**100 Quaternary system**

- 105 undifferentiated terrace
- 110 recent
  - 112 Tributary alluvium
  - 113 Main stem alluvium
  - 115 terrace
- 120 Wisconsinan stage
- 130 Illinoian stage
  - 132 Crete formation
- 140 Kansan stage
  - 142 Sappa formation
  - 144 Meade/Grand Island formation
  - 146 Belleville formation
- 150 Nebraskan stage
  - 152 Fullerton formation
  - 154 Holdrege formation
- 180 undifferentiated Kansan/Nebraskan
- 190 Equus Beds

**200 Tertiary system**

- 210 Ogallala aquifer
- 211 Ogallala formation

**300 Cretaceous system**

- 310 Montana group
- 320 Colorado group
  - 321 Niobrara chalk formation
  - 322 Carlile shale formation (including Codell sandstone)
  - 323 Greenhorn limestone formation
- 330 Dakota aquifer system (unconfined)

- 331 Dakota formation
  - 332 Kiowa formation
  - 333 Cheyenne sandstone formation
- 340 Dakota aquifer system (confined)
    - 341 Dakota formation
    - 342 Kiowa formation
    - 343 Cheyenne sandstone formation

**400 Jurassic-Triassic systems**

- 411 Morrison formation
- 420 Dockum group

**500 Permian system**

- 512 Day creek dolomite
  - 513 Whitehorse formation
- 520 Nippewalla group
    - 524 Cedar Hills sandstone formation
    - 525 Salt Plain formation
  - 530 Sumner group
    - 533 Wellington formation
    - 532 Ninnescah shale
  - 540 Chase group
  - 550 Council Grove group
  - 560 Admire group

**600 Pennsylvanian system**

- 610 Wabaunsee group
- 620 Shawnee group
- 630 Douglas group
  - 631 Lawrence formation (including Ireland sandstone)
  - 632 Stranger formation (including Tonganoxie sandstone)
- 640 Lansing group
- 650 Kansas City group

**700 Mississippian/Devonian/Silurian systems**

- 710 Springfield plateau aquifer (part of the Ozark Plateau Aquifer)

**800      Ordovician system**

- 820      Simpson group
- 830      Arbuckle group
- 890      Ozark aquifer (part of the Ozark Plateau Aquifer)

**900      Cambrian system**